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The Commonwealth of Massachusetts



Fall - Spring
1971 - 1972

Program of Continuing Studies

Boston State College

Catalog 1971-1972

Program of Continuing Studies

THOMAS F. DUNGAN, President

625 Huntington Avenue
Boston, Mass. 02115

The Commonwealth of Massachusetts

Calendar

Fall 1971

Monday		Tuesday		Wednesday		Thursday	
September	13	September	7	September	8	September	9
Friday	17		14		15		16
	20		21		22		23
	27		28		29		30
October	4	October	5	October	6	October	7
Friday	15		12		13		14
	18		19		20		21
Friday	29		26		27		28
November	1	November	2	November	3	November	4
	8		9		10		11
	15		16		17		18
	22		23		24	December	2
	29		30	December	1	Friday	3
December	6	December	7		8		9
	13		14		15		16

COMPREHENSIVE EXAMINATION—FRIDAY, NOVEMBER 19, 4 to 7 p.m.

Winter 1972

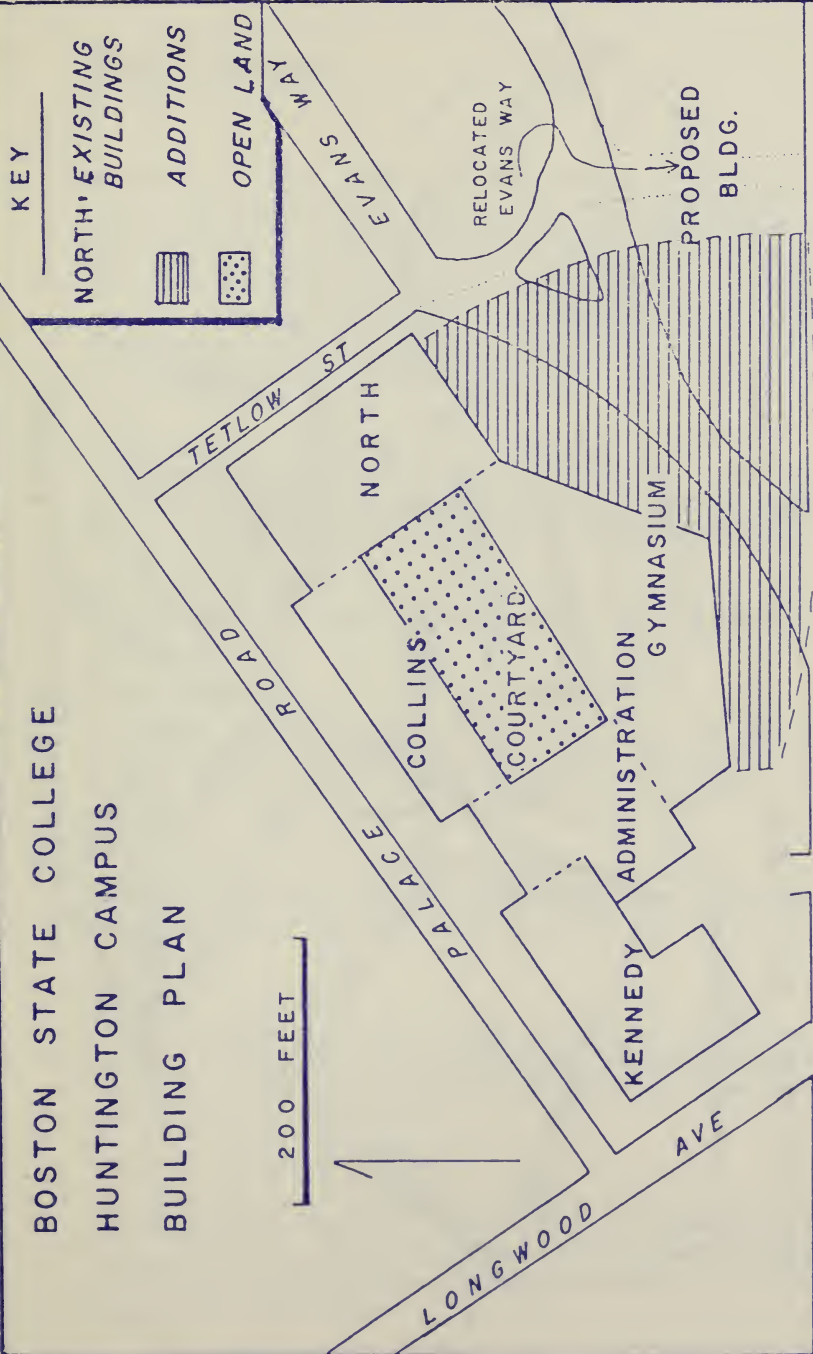
Monday		Tuesday		Wednesday		Thursday	
January	10	January	11	January	12	January	13
	17		18		19		20
	24		25		26		27
	31	February	1	February	2	February	3
February	7		8		9		10
	14		15		16		17
Friday	25		22		23		24
	28		29	March	1	March	2
March	6	March	7		8		9
	13		14		15		16
	20		21		22		23
	27		28		29		30
Week of vacation							
April	10	April	11	April	12	April	13
Friday	21		18		19		20
	24		25		26		27

COMPREHENSIVE EXAMINATION—FRIDAY, APRIL 14, 4 to 7 p.m.

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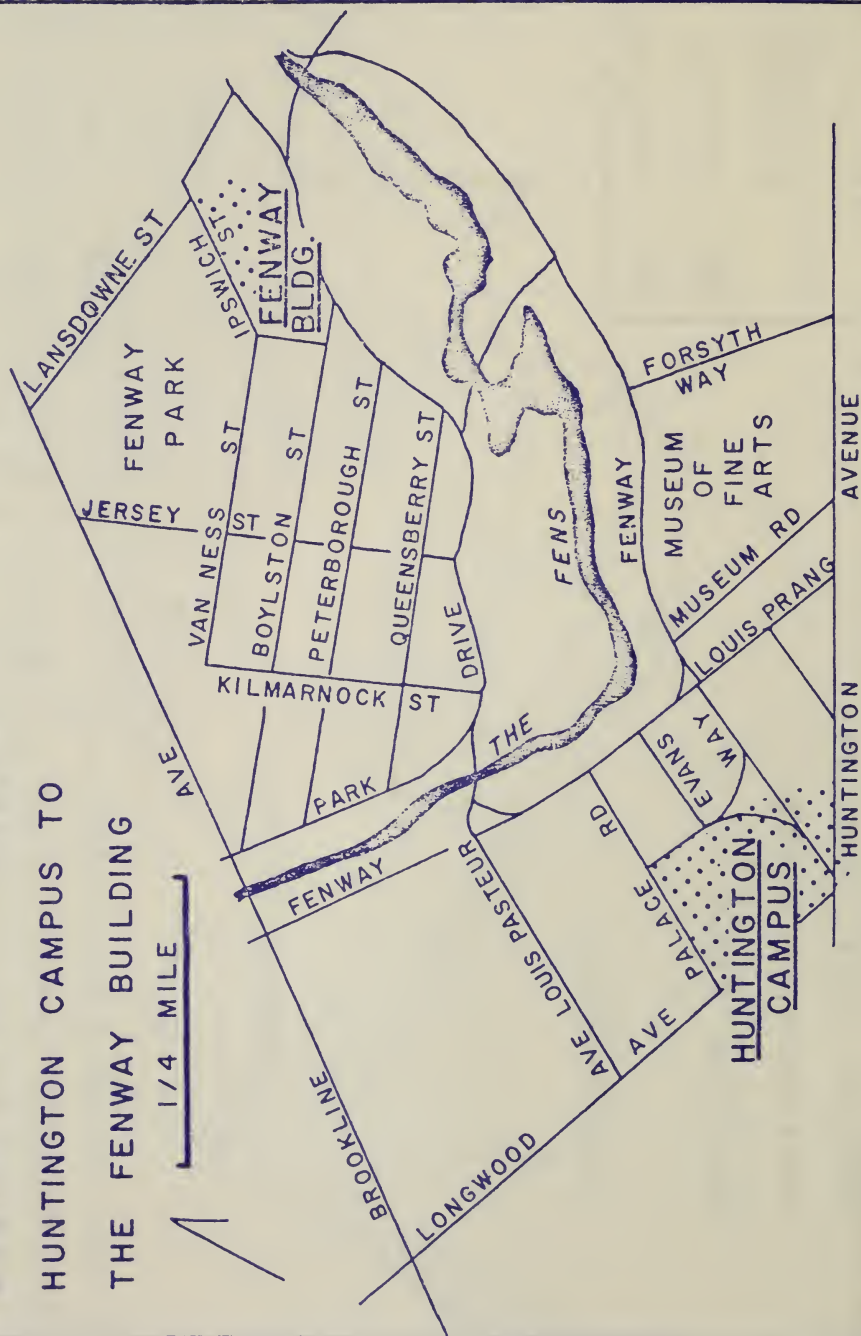
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BOSTON STATE COLLEGE HUNTINGTON CAMPUS BUILDING PLAN



BOSTON STATE COLLEGE —
HUNTINGTON CAMPUS TO
THE FENWAY BUILDING

1/4 MILE



The Campus

Boston State College is located on Huntington Avenue between Longwood Avenue and Evans Way in Boston's educational and cultural center, and behind Fenway Park on Ipswich Street. In the immediate vicinity are Simmons and Emmanuel Colleges, the Harvard Medical and Dental Schools, Wentworth Institute, Northeastern University, and the Massachusetts College of Art. The Boston Museum of Fine Arts and the Isabella Stewart Gardner Museum offer unusual cultural advantages both in their collections and through their fine concerts and lectures. The Boston Public Library is located a short distance away.

Administration Building

The Administration Building contains the office of the President and those of other administrative departments. Part of the college library also is located here, as are the facilities of the Department of Foreign Languages.

Collins Building

The offices and classrooms of the Department of Mathematics and Art are located here.

Fenway Building

This facility is located on Ipswich Street, a short walk from the main campus. Departments here are Afro-American Studies, Anthropology, Economics, English, History, Political Science, Psychology and Sociology. Also located here are a cafeteria, lounges and the office of the Student Government Association.

Transportation between the Huntington Avenue campus and the Fenway building is provided by the college. Buses can be boarded at the main entrance at 625 Huntington Avenue and at 174 Ipswich Street. The service is frequent and non-stop.

Kennedy Building

The Kennedy Building offers modern facilities for the teaching of a wide range of course offerings in Biology, Chemistry, Geography, Earth Science and Physics. The lower floors contain a cafeteria, lounges for students and faculty, and the offices of various deans.

Physical Education Building

A recently renovated gymnasium building contains physical education and locker facilities for both men and women. The Physical Education Building contains offices and classrooms, a large gymnasium, seating over 1,000, as well as a variety of other facilities, including squash courts, dance studios, apparatus rooms and rifle range.

North Building

This building houses the departments of Elementary Education, Secondary Education, Music, and Philosophy. The Curriculum Library, the Bookstore, and the North Hall student lounge are also located here.

Bookstore

A college bookstore is available on campus for the convenience of students. The bookstore is located on the first floor of the North Building. Its hours are as follows:

Monday and Thursday	9:00 a.m.—4:30 p.m.
Tuesday and Wednesday	9:00 a.m.—7:00 p.m.
Friday	9:00 a.m.—1:00 p.m.

Library

The College Library consists of three areas: the Main Library, which is located in a wing of the Administration Building; the Curriculum Library, located in Room 279 of the North Building, and the Fenway Library, located in the Fenway Building at Ipswich Street.

The library collection has doubled in the past six years and will be increasing each subsequent year by at least twenty thousand titles. The library also has many collections of microfilm, micro-fiche (including ERIC)—as well as approximately one thousand professional and scholarly periodicals and several thousand pamphlets including state and federal documents. Microfilm readers and reader printers are available for the use of the film and fiche. All of the above may be found in the Main library.

The Curriculum Library, which has received outstanding recognition all over New England, has all available materials needed for use in elementary and secondary classrooms or sources from which materials may be obtained. Publishers' text book series, as well as individual texts, courses of studies from all over the United States and elsewhere, filmstrips, microforms, records, SRA materials, teaching machines and other forms of media are all a part of this vast learning resource area for classroom teaching or research.

The Fenway Library is the most modern, attractive and spacious of all. It is equipped with the newest of service areas, is well furnished with study carrels, lounge chairs and individual study tables. This library houses the materials for the Literature, Social Sciences and Psychology courses. The collection is growing rapidly in these areas as well as in the reference materials needed for any course.

<i>Hours</i> Monday through Thursday	8:00 a.m.—9:15 p.m.
Friday	8:00 a.m.—4:30 p.m.
Saturday, Sunday, Holidays	closed

General Rules

Desk reserves and Periodicals must be signed for and used in the First Floor Library unless special permission is requested of the Librarian on duty to use the materials on the second floor area.

Under no condition is any of this material to be taken out of the library area. This material is on a "time basis"—restricted to one hour use in the room.

Overnight reserves may be used during the day as Desk Reserves. The overnight reserves do not circulate for home use until 4:30 p.m. any day, and must be returned before 9:00 a.m. the next day. There will be a penalty for each hour the book is overdue.

Stack books circulate for two weeks. Renewal is permitted if the book is not in demand. However, the book must be presented for recharging. Students receiving notices relative to overdue materials must report immediately to the library. Student's records must be cleared in the library before registration or registration will be delayed. The same clearance applies to requests for transcripts. Report lost books immediately.

Cafeteria

A cafeteria is located on the first floor of the Kennedy Building and another on the first floor of the Fenway Building. The hours for the Kennedy cafeteria are: 7:30 a.m. to 7:30 p.m., Monday through Thursday, and 7:30 a.m. to 2:30 p.m. on Friday. The Fenway cafeteria is open from 7:30 a.m. to 3:30 p.m. Monday through Thursday, and 7:30 a.m. to 2:30 p.m. on Friday. These hours apply to the fall and spring semesters only. The cafeterias are open only to students of Boston State College.

Cancellation of Classes

In the case of inclement weather or emergencies when the college will be closed, no-school announcements will be broadcast on radio stations WBZ, WHDH, and WEEI.

Security

The security force is a service organization that carries a wide range of responsibilities in order to protect the welfare of the academic community. It is responsible for the security of college property, provides personal protection to students and staff, and provides emergency service and transportation in cases of illness and accidents.

In the pursuit of their duties, the security force is governed by Federal and State laws, both civil and criminal; city ordinances and rules and regulations established by the Board of Trustees. However, it should be pointed out

that the security force is a supporting service whose major purpose is to further the objectives of the college through cooperation with all members—students, faculty, administration and staff.

I. D. Cards

Student I.D. cards must be shown upon the request of any properly identified member of the security force in order to enable him to perform the duties to which he has been assigned.

Massachusetts Trespass Act

Boston State College is governed by the Massachusetts Trespass Act, enacted June 2, 1969.

Trespassing Upon Land of Certain Institutions

Whoever willfully trespasses upon land or premises belonging to the commonwealth, or to any authority established by the general court for purposes incidental to higher education, appurtenant to a public institution of higher education, the state prison, state prison colony, Massachusetts reformatory, reformatory for women, state farm, Tewksbury hospital, Soldiers' Home in Holyoke, any public institution for the care of insane, feebleminded or epileptic persons, any Massachusetts training school or state charitable institution, or upon land or premises belonging to any county and appurtenant to a jail, house of correction or courthouse, or whosoever, after notice from an officer of any of said institutions to leave said land, remains thereon, shall be punished by a fine of not more than fifty dollars or by imprisonment for not more than three months.

(Amended by 1969, 362, approved June 2, 1969, effective 90 days thereafter).

Placement Office

The Boston State College Placement Office was established in September, 1970, to provide professional placement services for seniors and graduate students. Services provided by the Placement Office include: permanent placement files for candidates, providing candidates' placement credentials for employers, the posting of employment opportunities, mailing job notices to active candidates, providing on-campus interviewing opportunities for employers, individual counseling, collecting and disseminating job market information. Your college placement office offers immediate short-range placement assistance and long-range career planning assistance.

The Placement Office, including the office of the Director of Placement, is located in Room 210K of the Kennedy Building and it is open throughout the year. Job notices and other job market information are posted in the Second Floor Corridor of the Kennedy Building, outside Room 210K. Under existing policy, a fee of \$5.00 shall be required of each degree candidate in the academic year in which his degree is to be awarded in the Program of Continuing Studies.

Placement Registration forms are available in Room 210K where staff members are available to answer inquiries about placement services for students in the Program of Continuing Studies.

General Information

The courses announced in this bulletin are offered by the Massachusetts Division of State Colleges in cooperation with Boston State College. The Division of State Colleges reserves the right to cancel any course which does not have a minimum paying enrollment.

Both graduate and undergraduate credits are offered: courses numbered in the 8000 series carry both graduate and undergraduate credits; courses in the 9000 series carry graduate credit only.

All courses carry three semester hours of credit. Each course will meet a total of fifteen class sessions; each class session will be two hours and fifteen minutes in length.

Admission

Applications for enrollment are available in the Office of Continuing Studies and must be filed, along with all supporting documents, **NOT LATER THAN SIX WEEKS BEFORE THE BEGINNING OF A TERM.**

Undergraduates who plan to work toward a degree must have at least sixty (60) semester hours of acceptable transfer credit from a college accredited by a regional agency, or from a college which is a recognized candidate for such accreditation. All students must earn at least forty-five (45) semester hours at Boston State College to qualify for a degree at this institution.

Student teaching, if required, must be completed under the supervision of the faculty of Boston State College. Student teaching is available only for candidates in degree programs. (See Teaching Requirements).

Special students must be in good standing at a college accredited by a regional accrediting agency or a college which is a recognized candidate for such accreditation. The student must supply, with his application, a letter from an appropriate college official, certifying good standing and a willingness to accept for transfer those courses for which the student plans to apply.

Registration

Registration is generally conducted through the mail. Registration materials for those enrolled are mailed to the student approximately six weeks prior to the start of a term and must be returned by the date indicated in the material.

Students not taking advantage of mail registration may register in person just prior to the start of classes, *if space is available.*

Under no circumstances may courses be changed after the second meeting.

Under no circumstances may academic status be changed from credit to audit after the third meeting. Students who plan to audit a course must register for such course in person only.

Students may withdraw from a course without penalty up to the mid-point of the course. Withdrawals are not permitted after the mid-point of the course except for due cause. Withdrawals after that date carry the grade of WP or WF.

If, for any reason, a student must withdraw from class, a written notice and explanation must be filed with the Office of Continuing Studies. Telephone calls are not accepted as notification of withdrawals.

Tuition and Fees

All tuition and fees are due and payable with your registration. Payment must be made by check or money order only. **CASH WILL NOT BE ACCEPTED.**

TUITION:

Massachusetts Residents	\$18 per semester hour
Non-Residents	\$25 per semester hour
Audit Fee	\$11 per semester hour
Student Teaching Fee (Residents)	\$108.00
(Non-Residents)	\$150.00

FEES:

Registration Fee	\$10 each term
Library Fee	\$ 5 each term
Late Registration Fee	\$ 2
Course Change Fee	\$ 2 each change
Bad check Fee	\$10
Graduation Fee	\$ 5

Tuition Refund Policy

Before the second class meeting	100%
After the second class meeting but before the third	80%
After the third class meeting but before the fourth	60%
After the fourth class meeting	0%

Refunds are calculated as of the date of written withdrawal as received by the Office of the Registrar. **NO PART OF ANY FEE MAY BE REFUNDED.**

Transcript

Official transcripts are the only type available. Upon graduation one copy will be sent to each student without charge. Additional copies may be obtained upon request at the rate of \$1.00 per copy. Ordinarily, transcript requests take up to three weeks. During registration periods, no transcripts are sent.

Transcripts may be requested only in person in the Office of the Registrar or through the mail and must be prepaid. No telephone requests will be honored. Although official transcripts are given to the student, they must be mailed and may not be picked up in person.

Academic Requirements

Grades are reported according to the following system:

4.0, 3.5, 3.0, 2.5, 2.0, 1.5, 1.0, 0.0.

4.0 is the highest grade.

1.0 is the lowest passing grade for undergraduate students.

2.0 is the lowest passing grade for graduate students.

Graduate students who accumulate more than six (6) semester hours of grades below 3.0, must withdraw from the program leading to the Master of Education Degree.

Other Grades

WP (withdrew passing) WF (withdrew failing). These grades are reserved for those students who withdraw after mid-term with the approval of the Director of Continuing Studies. WP indicates that the student was performing at a satisfactory level at the time of withdrawal. WF indicates that the student was performing at an unsatisfactory level at the time of withdrawal. Neither grade is computed in the student's averages.

- P (Passing): Used in pass/fail courses only. P indicates satisfactory completion of a course without quality designation.
- AUD (Audit): This designation is given to indicate that a student was present in a class as an auditor. Such students are not permitted to participate in discussions or take examinations.
- INC (Incomplete): This grade may be given when the FINAL EXAMINATION OR A TERM PAPER has been missed, CAUTION: Students are reminded that grades of INC must be made up within one semester. Grades not changed will revert to 0.0, and will be so recorded. Students who fail to take the final examination and also fail to submit a term paper will receive a grade of 0.0.

Veterans

World War II and Korean

Any resident of Massachusetts who has served in any branch of the armed services for at least ninety (90) days, ONE of which must have been served either between: SEPTEMBER 16, 1940 and DECEMBER 31, 1946, OR BETWEEN JUNE 25, 1950 and JANUARY 31, 1955 and who has a discharge other than dishonorable, may enroll without tuition charge for instruction in any course here offered within the established limitation of 120 semester hours. To establish his eligibility, the veteran must present his discharge papers or a photostatic copy, or certificate of satisfactory service in the case of officers, together with proof of residence in advance of the opening date of class meeting. Veterans must pay registration fees and when applicable, late registration fees and change of course fees.

All veterans who come under the new G.I. Bill must pay their tuition to the college. These veterans are to be reimbursed by the Veterans' Administration. Note: If this is your first enrollment, you must contact your Veterans' Administration Office for information on reimbursement.

Vietnam Period

Veterans who have served at least 180 days between February 1, 1955, and the termination of the Vietnam emergency, and whose service was credited to Massachusetts, are exempt from paying tuition. To obtain this exemption the following procedure must be followed:

1. The veteran should present his discharge papers to the War Records Office, (room 1000) Saltonstall Building, 100 Cambridge Street, Boston, Mass., and obtain certification that he meets the necessary requirements and that his service is credited to Massachusetts.
2. At registration, the veteran obtains a letter that he is enrolled in the Program of Continuing Studies for a given number of semester hours.
3. This letter and the certificate from the State Adjutant General are submitted to the Office of the Commissioner of Education, Department of Education, 182 Tremont Street, Boston, Massachusetts, (Miss McDonough, 2nd floor).
4. The certificate of Exemption from Tuition which is issued by the Dept. of Education is then presented to the Program of Continuing Studies.

Any veterans of the military service who do not fit into the above categories will be considered non-veterans for registration purposes. However, it is possible that some veterans who are not eligible for tuition exemption from the Commonwealth of Massachusetts may be entitled to reimbursement or subsistence from the Veterans' Administration.

All veterans, whether or not exempt from paying tuition, must pay all fees.

NOTE: THIS CERTIFICATE MUST BE RENEWED ANNUALLY PRIOR TO THE START OF EACH ACADEMIC YEAR.

Programs of Instruction

The Program of Continuing Studies offers courses for enrichment and advancement at both the undergraduate and graduate levels. A student may earn the degree of Bachelor of Science in Education and Master of Education.

Undergraduate Information

The requirements for the Bachelor of Science in Education degree may be satisfied in either Elementary Education or in Secondary Education. For each program 120 semester hours (exclusive of student teaching) are required.

In order to receive an undergraduate degree through the Program of Continuing Studies, the applicant must have a minimum of sixty (60) ACCEPTABLE transfer credits from an accredited college or university.

Undergraduates must take a minimum of forty-five (45) semester hours at Boston State College in order to qualify for a degree from this institution.

Candidates for a secondary education degree must satisfy the major requirements of his department. A candidate must complete his student teaching assignment after all other requirements for the degree have been completed.

Graduate Information

Boston State College offers programs leading to the Master of Education degree with concentration in the following fields:

- Early Childhood Education
- Special Education
- Reading
- School Administration
- School Psychology
- Guidance
- Secondary Education
- Elementary Education
- Urban Studies
- Special Education for Emotionally Disturbed
- An Academic Area
- A specialized area as arranged through consultation with the Director of the Program of Continuing Studies

Requirements for Admission

1. An official application for admission submitted to the Office of Continuing Studies.
2. A bachelor's degree from an accredited college. An applicant's prior record should show a strong background in liberal arts subjects, including work in the humanities, social sciences, natural sciences and mathematics. The Committee of Admission to the Graduate Program reserves the right to prescribe successful completion of further undergraduate study for those candidates whose Bachelor preparation is not adequate for a graduate program in education.

Procedures for Matriculation

1. After completion of 6 semester hours the student may, and before the completion of 12 semester hours, the student must apply for matriculation into the Master of Education program. This procedure represents official acceptance into the graduate program. A student is not an official candidate for the Master's of Education until he has been matriculated. Previous admission to courses does not represent matriculation for the degree.

Prior to applying for matriculation the candidate must have the following on file in the Office of Continuing Studies:

1. An official copy from the Educational Testing Service of the candidate's scores in the Aptitude Test of the Graduate Record Examination.
2. An official transcript of record for all prior collegiate study.

The candidate may secure an application for matriculation from the Office of Continuing Studies. The completed application is submitted to the Director of Continuing Studies.

Requirements for the Master of Education Degree

The quantitative requirements for the degree shall be a minimum of thirty-three (33) semester hours, distributed as follows:

1. Three required courses—
Research and Evaluation
Advanced Philosophy
Advanced Psychology
2. Fifteen semester hours in a Field of Concentration
3. Nine hours of electives

Note: Of the thirty-three semester hours required for the degree, fifteen semester hours must be in the field of education.

Before being eligible to receive the degree, the student must pass a comprehensive examination in three areas:

- Philosophy of Education
- Psychology of Education
- A Field of Concentration

A candidate who fails the comprehensive examination may be given one further opportunity to take it. Students who fail the comprehensive a second time are not eligible to receive the Master of Education Degree.

General Policies

1. No student is fully admitted to graduate study until he has been officially notified of acceptance (matriculation) by the Office of Continuing Studies. Students should be sure that they carefully check the rules and regulations applying to their program and have consulted consistently with their advisors. Students are also advised to check with the Office of Continuing Studies well in advance of graduation to be sure that office records are complete and requirements are met.
2. Graduate courses taken before the student has applied for matriculation to the Master's Degree at this college may or may not apply toward the Master's Degree. Such courses, whether taken at this college or elsewhere will be accepted at the discretion of the advisor and the Director of Continuing Studies.
3. The attendance of students at regularly scheduled classes is required and the responsibility for such attendance rests with the individual student.
4. All candidates entering the Master of Education program must take Research and Evaluation during the first semester of graduate study.
5. All the work for the degree must be completed within a period of six (6) years.
6. Of the thirty-three (33) semester hours of credit required, twenty-seven (27) must be earned in graduate courses taken on the campus of Boston State College. Courses taken for graduate credit in any college other than Boston State College must be approved in advance. Course grades lower than "B" from other institutions are not transferable.
7. Students in a formal program for the Master of Education degree at Boston State College must take their final semester's work at Boston State College.
8. For full-time teachers, not more than six (6) semester hours of credit per semester may be credited toward the graduate degree.
9. Successful practice teaching under college supervision or successful classroom teaching experience is required before the degree of Master of Education will be awarded. Those persons who qualify for student teaching through the Program of Continuing Studies must make application for student teaching in Room 109A prior to the listed dates of registration, and pay tuition at that time.

Teaching Requirement

A. Each candidate must present evidence of having completed a satisfactory student teaching experience before being awarded the Master of Education Degree. This experience must be at the elementary school level for teachers of the elementary schools and at the secondary school level for teachers of the secondary schools. This requirement is met by one of the following:

1. The student having satisfactorily completed a student teaching assignment acceptable to the graduate committee under college supervision in

an accredited school. The experience must have granted a minimum of six semester hours of credit and must have resulted in satisfactory grades.

2. The student arranges to have a letter from his principal or superintendent submitted to the Office of Continuing Studies. This letter should state that the candidate has been teaching at a particular grade level for a stated period of time. (THE ACCEPTABLE PERIOD FOR THE MASTER'S DEGREE IS A MINIMUM OF ONE FULL SEMESTER). The statement must read verbatim that:
 - a. The teacher had full responsibility for the total conduct of his classes.
 - b. The candidate taught on a full-time paid consecutive basis.
 - c. The teaching experience was more than satisfactory and the principal or superintendent is willing to continue to employ the candidate in that capacity.
3. The candidate completes a student teaching experience at Boston State College under procedures and requirements established for that experience. In order to qualify for the student teaching experience at Boston State the student must have completed the required course work and prerequisites determined by the advisor and the college.

Description of Courses

All courses are for three semester hours unless otherwise indicated.

Course Numbers

8703

ABNORMAL PSYCHOLOGY

This course is concerned with the development of concepts and principles of unusual mental activity with special emphasis placed upon the relation of these principles and concepts to general, child and adult psychology. Discussion of abnormal phenomena will be approached through consideration of the normal. Symptoms and behavior of abnormal individuals are seen as exaggerated manifestations of normal functions. Contents will embrace the classification of mental diseases and the various methods of treatment by discussing the chemical and psychotherapeutic approaches to prevention and control of mental disease.

8020

ADMINISTRATION AND SUPERVISION OF THE READING PROGRAM

This course will study the current practices and trends in elementary and secondary reading programs. The problems involved in organizing, coordinating and supervising the total reading program will be stressed: duties and responsibilities of the reading teacher, reading specialist and supervisor, inservice program, reviews of federal reading projects and evaluation of the reading curriculum, materials used, and teacher effectiveness.

8702

ADOLESCENT PSYCHOLOGY

Emphasis will be on the adolescent as he is seen by the classroom teacher and the problems that confront the teacher in directing his growth toward acceptable social standards. This course will stress the application of psychological principles to the pupil's adjustment to school, home, and community and the development of a well-integrated personality.

8133

ADULT BASIC EDUCATION

Provides prospective teachers in the Adult Basic Education program with an understanding of the aims and objectives of Adult Basic Education as provided in the Massachusetts State Plan, an appreciation and understanding of the adult in need of basic education, a broad acquaintance with available materials, a knowledge of the use to which community agencies and community programs may be utilized, a knowledge of the different methods which may be used in teaching adults, an understanding of the techniques to be used in meeting the individual differences present in every adult-oriented classroom.

**Course
Numbers**

7296

ADVANCED DRIVER EDUCATION

This course is designed to develop an understanding of the objectives and scope of Driver Education in the total high school curriculum and the need to relate Driver Education to a comprehensive community endeavor. Special attention will be given to administrative policies and practices and selection, organization and program evaluation. Laboratory practices will include experience and operating a total Driver Education Program.

8900

ADVANCED PAINTING I

A studio course exploring the painting media or combinations of media such as collage, bas-relief, or mixed media. Emphasis will be placed upon personal development and expression of the individual in a creative manner in regard to life around them.

8902

ADVANCED PAINTING II

This course stresses the personal painting style of the student. Individual interpretation of subject matter will be discussed and examined through critique.

9002

ADVANCED PHILOSOPHICAL FOUNDATIONS OF EDUCATION

This course makes application of the philosophical bases of education to recurrent and contemporary educational issues and problems. Each topic is studied from the viewpoint of each of the major philosophical systems and the related educational concepts in order to determine to what extent a synthesis of viewpoint may be achieved.

9001

ADVANCED PSYCHOLOGICAL FOUNDATIONS OF EDUCATION

An advanced course with the psychological principles and theories concerned with the educative process in the normal classroom situation. Emphasis is focused upon classroom personalities, leadership and group formation, group dynamics, classroom control and delinquent behavior, role playing techniques, personal adjustment and the problems of the socially disadvantaged. Supplementary research readings included.

8531

ADVANCED SPOKEN SPANISH

This course is a continuation of Conversational Spanish II and is designed for professional people who may work with the Spanish-speaking community. It is intended for students who possess a real degree of oral fluency but who need to acquire the habit of spoken language necessary for spontaneous self expression. Students will discuss topics and materials methodically organized by instructor with the aid of newspaper articles, magazines and the Language Laboratory.

**Course
Numbers**

8207

ALGEBRA FOR ELEMENTARY TEACHERS

The course, for teachers of "Elements of Arithmetic" (Grades K-6) is recommended by the Committee on the Undergraduate Program in Mathematics.

The course is concerned with basic ideas and structure of algebra, including equations, inequalities, examples of truth sets of equations and inequalities, examples of finite algebraic systems to emphasize the structure of algebra as well as simple concepts and language of sets.

8808

AMERICAN COLONIAL HISTORY

The age of discovery carried European civilization and people overseas and the new world environment modified them. This course tells the story of the settlement of thirteen colonies to their revolutionary era and describes the development of American life and institutions.

8805

AMERICAN FOREIGN POLICY

The problems of American foreign policy since 1950 will be discussed. Topics such as America's role in Asia, Europe and the Middle East will be of prime concern. Analysis will also include foreign aid, the role of diplomacy, and the function of the president in the making of our foreign policy.

8503

AMERICAN LITERATURE I

The course will offer background in the literature and cultural history of America for teachers at the elementary and secondary levels.

8504

AMERICAN LITERATURE II

A survey of American literature from Whitman to Faulkner. Important literary movements and trends will be studied and discussed.

8803

AMERICAN REVOLUTION AND CONSTITUTION

Analyzing the breakup of the British Colonial system, the course describes the Revolution and the creation of a new nation and federal government.

8261

AMHERST PROJECT: HISTORY AS INQUIRY

A study of the philosophical and practical application of the Amherst Project's approach to the teaching and learning of history in the schools. The Amherst approach will be contrasted with the traditional history survey course. There will be an intensive analysis of some of the materials being developed by the Amherst Project. This course will be limited to Junior high and High school teachers.

8868

THE ARAB STATES AND ISRAEL

This course will deal with the continuing crisis of the Middle East. Analysis and discussion of the history and background of the role of the big powers and the problems of the Arabs and Israelis will be under discussion.

**Course
Numbers**

- 8241 **ART FOR THE CLASSROOM TEACHER**
A studio workshop which will offer experience in dealing with the art materials, skills, and techniques valuable to the classroom teacher. Basic drawing, painting, lettering, and modeling will constitute the topics considered in this course. Problems will be arranged to develop the knowledge and skills for classroom needs. No previous art training of special ability required.
- 8903 **ARTS AND CRAFTS**
The exploration of the uses of varied materials (wood, paper, metal, wire, paint, etc.) and their application in the area of the creative visual arts and crafts on the elementary school level.
- 8665 **ASTRONOMY**
This course will be a descriptive treatment of the solar system and the stars with a minimum of mathematical analysis.
- 8134 **AUDIO VISUAL AIDS IN EDUCATION**
This course is for the classroom teacher who is interested in audio-visual techniques for improving instruction. Each class member learns the operation of equipment as well as sources of materials for the various curricula. In addition, teachers experiment with lesson planning in using audio-visual materials and equipment in the classroom.
- 8536 **BILINGUALISM AND E.S.L. SEMINAR PART I**
Advanced topics for teachers in the field or those who have completed a methodology course in the field. Selected topics in the areas of language acquisition, psycholinguistics, linguistic sociology, and survey of current materials and current programs in Massachusetts.
- 8537 **BILINGUALISM AND E.S.L. SEMINAR PART II**
Group projects in bilingual education and ESL based on the theory developed in Part I. Topics will include Material Development, Evaluation Techniques, Parent and Community roles in Bilingual Education.
- 8969 **BOOK SELECTION FOR CHILDREN**
A perspective on the selection of materials for enriching the curriculum and serving individual needs. Attention will be given to the aspects of selection, accessibility and organization of materials as set forth in the 1969 Standards for School Media Program.
- 8972 **BOOK SELECTION FOR YOUNG ADULTS**
A perspective on the selection of materials for enriching the curriculum and serving individual needs. Attention will be given to the aspects of selection, accessibility and organization of materials as set forth in the 1969 Standards for School Media Program.

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- 8867 **BUSINESS LAW**
A study of the law of contracts, real estate, insurance, and business organizations.
- 8606 **CALCULUS II**
The course is a modern treatment of the calculus functions of one variable. The course includes transcendental functions, methods of integration, determinants and linear equations, polar coordinates, vectors and parametric equations.
- 8277 **CARNEGIE-MELLON SLOW LEARNING PROGRAM**
This workshop course will concern itself with the characteristics, objectives, materials, teaching strategies, and evaluation of slow learners. Materials will include *A Rationale for Slow Learners* and *The Americans*, published by the Social Studies Curriculum Center at Carnegie-Mellon University. Participants will be evaluated on their ability to create and teach lessons of their own making.
- 9308 **CASE-METHOD STUDY OF ADMINISTRATION**
This new approach emphasizes learning to administer instead of about administration. A variety of specific cases and situations are analyzed and the educator contributes to the solution, thereby gaining invaluable understandings and experiences through the examination of alternatives and the selection of a course of action.
- 8950 **CATALOGING AND CLASSIFICATIONS I**
Fundamentals of processing books for school libraries using Sears subjects headings and Dewey classifications.
- 8706 **CHILD PSYCHOLOGY**
The course presents a systematic, integrative and interpretive description of the psychological development of children from birth through adolescence. Emphasis is placed on the material, personal, social and cultural context of behavior and development with the goal of understanding childhood and the development of children, especially how things appear to the child himself. Childhood is presented both as an embodiment of general principles of behavior and development and as a period on which adulthood is founded.
- 8278 **CHILDREN WITH SPECIAL NEEDS AND THE CLASSROOM TEACHER**
Emphasizes practical suggestions to the teacher for identifying and providing for children with special needs. Course content will include identification and classification, methods and materials, social and vocational adjustment and the structuring of the modern curriculum for children with special needs.

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- 8887 **CIVIL LIBERTIES**
Study of rights of defendants accused of crime, first amendment freedoms of speech, press, and assembly. Emphasis on wiretapping, pornography, confessions, public aid to private schools, search and seizure.
- 8802 **CIVIL WAR AND RECONSTRUCTION**
The great upheaval in mid-century America: causes, the agony of war, and the legacy of division between sections and race.
- 9302 **COLLECTIVE BARGAINING AS IT RELATES TO EDUCATION IN MASSACHUSETTS**
The purpose of this course will be to acquaint teachers, administrators, and other interested people with the many facets of the collective bargaining statute for teachers in Massachusetts.
- 9310 **COLLECTIVE BARGAINING IN ACTION**
This course will involve mock negotiations with students participating in the bargaining process. Evaluation will be made by class and by instructor. Areas of concern in part would involve: Massachusetts Law relating to Collective Bargaining, Agreements for reference, bargaining team and procedure, contract language, fact finding, ground rules, and preparations.
- 8864 **COMPARATIVE GOVERNMENT**
A comparative study of the government of Great Britain, France, Germany, and the Soviet Union.
- 8620 **COMPUTER SCIENCE**
The course is designed to acquaint the student with scope and power of a high speed digital computer and with the techniques by which its potential can be utilized. Topics included are a computer programming language (Fortran) and the applications of a computer in various fields.
- 8508 **CONTEMPORARY IRISH LITERATURE**
This course will consist of a careful reading and a critical analysis of the following: W. B. Yeats, J. Joyce, O'Casey, S. Beckett, S. O'Faolain, and B. Moore.
- 8866 **CONTEMPORARY POLITICS IN THE MID-EAST**
Internal developments in the Near-East countries as well as the tensions between Israel and the Arab states will be scrutinized. The role of the major powers in the area will be probed.
- 8882 **CONTEMPORARY SOCIAL PROBLEMS**
Analysis of major social problems in contemporary society. Behavioral deviance such as crime, drug abuse, alcoholism, and social disorganization will be examined.

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8530

CONVERSATIONAL SPANISH I

This course is designed primarily for police officers and other professional personnel who wish to obtain a workable speaking facility in the language so as to serve their immediate human needs in a Spanish speaking community. The course will offer intensive training in oral practice and self-expression in current, everyday Spanish. A detailed program for each weekly session will be arranged on selected topics aimed at the systematic building up of specialized conversational vocabulary.

9400

COUNSELING: THEORY AND PRACTICE

This course acquaints the student with the role and function of the school counselor in a public school setting, particularly as to how he relates his theoretical orientation to the nature and process of counseling students. It also surveys the major theories of counseling, through the medium of group projects. Current Principles of Guidance is a prerequisite.

8290

CURRICULUM AND METHODS IN BUSINESS EDUCATION FOR SECONDARY SCHOOLS

The aim of the course is to aid both present and prospective business teachers to extend their professional horizons in order to improve their teaching methods. Attention will be given to the following: professional preparation; learning process as applied to business subjects with the necessary teaching techniques; objectives of business education through a study of the curriculum.

8061

CURRICULUM DEVELOPMENT IN SECONDARY SCHOOL

This course will give a comprehensive survey of the development of the secondary school curriculum with particular reference to the community in which it functions and the nature of the student. Recent programs in curriculum development will be investigated and appraised. Such important topics as the gifted child, the drop-out student, financing curriculum innovations and planning and proposing curriculum improvements will be treated in this course.

8964

CURRICULUM OF HEALTH EDUCATION

This course emphasizes major aspects of learning theory, communication theory, educational methods in health education for elementary and secondary teachers. The major focus of the course is on health education aspects of school health services.

8303

DATA PROCESSING FOR SCHOOL PERSONNEL

An introduction to Data Processing for the School Administrator, Guidance Counselor, and Classroom Teacher. The course is intended to introduce Data Processing equipment and terminology, Data Man-

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agement, a Programming Language, and Computer Concepts, emphasizing their relationship to secondary school curriculum.

8260 DEVELOPING NEW SOCIAL STUDIES MATERIALS

This course invites teachers to apply the theory and strategies of the New Social Studies in developing learning materials for use in their own classroom.

8716 DEVELOPMENT OF PERSONALITY

This course is designed for teachers and graduate students to give a better understanding of personality development during the formative years and the relationship of earlier experiences on the individual's behavior in adult life. Each phase of development from birth to maturity will be considered separately and the concomitant emotional problems will be discussed and supplemented with clinical case studies. Theoretical explanations will be presented for the underlying emotional disturbances in specific behavior syndromes. The study of personality will be approached from the psycho-dynamic point of view.

8699 DEVELOPMENTAL BIOLOGY

The study of reproductive cycles in mammals, hormonal control of reproductive cycles, survey of hormonal control on ovulation, placenta-tion, and the hormonal mechanism in lactation. General Biology is a prerequisite.

8155 DEVELOPMENTAL READING INSTRUCTION

This course is designed to aid teachers in understanding the sequence of basic reading skills in the elementary grades. Special emphasis is given to practical suggestions and techniques for teaching reading at different levels and integrating it with the teaching of other subjects. A study of recent teaching trends and instructional materials is included.

8158 DIAGNOSIS AND CORRECTION OF READING DISABILITIES

The course will focus on the instruments used to diagnose reading disabilities and the methods and materials for their remediation. Developmental Reading and Child Psychology are prerequisites.

8019 DIAGNOSING READING PROBLEMS IN THE SECONDARY SCHOOL AND COLLEGE

This course deals with the means and methods of diagnosing reading problems in the secondary school and college; the components of an in-depth analysis of reading proficiency; a review of strengths and weaknesses of current standardized reading tests; the construction of informal reading inventories; the isolation of causal factors leading to poor reading; a review of measures of intellectual potential; determining readiness and programs of remediation.

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8692

DRUG ABUSE EDUCATION

An in-depth presentation dealing with the biological and chemical questions associated with the use and abuse of certain physiologically active substances. The natural and synthetic sources of the commonly abused agents such as marijuana, LSD, and other hallucinogens, the opiates, stimulants, and depressants will be discussed in detail. Films dealing with the various aspects of the subject will be scheduled along with discussion periods.

The prime objective of the course is to prepare educators at all grade levels to discuss intelligently this vital topic with their students.

8690

DRUGS: USE AND MISUSE

An in-depth study of all categories and of drugs and their action on the body. Both use and misuse will be discussed.

8654

ECOLOGY

An introduction to the relationships of plants and animals to one another and to their environment. Behavior, structure, adaptation and evolution are central themes. Three optional field trips. General Biology is a prerequisite.

8707

EDUCATIONAL MEASUREMENT

This course is designed to provide the teacher with an understanding of the processes of educational measurement and an appreciation for the various test materials available.

7702

EDUCATIONAL PSYCHOLOGY

This course will discuss the many factors that lead to and influence the ability or inability to learn in the classroom setting. We will look at such factors as intelligence, heredity, socio-economic level and personality make-up. This course should be of value to teachers at all levels and also to the wide variety of guidance specialists including remedial teachers, adjustment counselors and school psychologists. Our approach will be diagnostic and prescriptive.

8203

ELEMENTARY MATHEMATICS WORKSHOP

The course is designed for the Elementary Teacher who has little or no modern mathematics background. Construction of visual aids and manipulation devices will be stressed, i.e. cuisinaire rods, abacus, overhead projector, projectuals, three dimensional geometric modules, and paper folding. A general survey of most of the new topics in mathematics will be attempted.

8116

ENGLISH COMPOSITION WORKSHOP

A group-analysis approach to English exposition, with special emphasis on teacher-comments, structure of ideas, organization, the logic of diction, and basic English grammar. A critical sense for the correction and

revision of expository writing will be developed. Appropriate for both students of the teaching of English composition and students of writing itself.

8709 ETIOLOGY, DYNAMICS AND TREATMENT OF EMOTIONALLY DISTURBED CHILD

This course will cover the development of various forms of emotional problems in children dealing with the role of family culture and biological forces. Various treatment techniques and their rationales will be discussed, selected readings will be assigned and invited speakers will present material on specialized topics from time to time.

8680 EVOLUTION

This discussing-seminar course will explore the major forces which have produced change in living organisms since their origin on the earth. Sources of variation within populations, the role of natural selection, and adaptations resulting from evolution will be considered. Other topics include the origin of species, evolution of groups above the species level (adaptive radiation), and the rise of man.

Introductory Biology is desirable as a prerequisite, though this may be waived by the instructor in individual cases.

8908 FIGURE AND PORTRAIT PAINTING

Prerequisite: basic drawing or painting course. A course designed to preserve and expand the natural ability developed in a basic foundation course in drawing and painting, and to increase and continue the student's awareness and skills of depicting the figure and portrait in various styles of the student's own choosing, emphasizing structure and anatomy and their relationship to the interpretation of the figure and face.

8628 FINITE MATHEMATICS

The course includes elements of mathematical logic, sets, combinatorial analysis, probability theory, stochastic processes, vectors, and matrices and applications.

8614 FOUNDATIONS OF EUCLIDEAN AND NON-EUCLIDEAN GEOMETRY

The course illustrates and teaches the spirit of modern mathematics while using the subject of elementary geometry. A synthetic and axiomatic approach is used to introduce the Euclidean and Non-Euclidean geometry. The course blends several aspects of mathematical thought: Intuition, creativity, abstraction, and rigorous deduction.

8695 FRESHWATER FISHERY BIOLOGY

A study of the freshwater fish of New England including identification,

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management and problems in pollution.
Prerequisite: General Biology.

8618 FUNDAMENTAL CONCEPTS OF ANALYSIS

The course is concerned with providing an elementary treatment of the ideas of analysis to persons with a minimal background in math. An objective is the development of an application of the real number system and of real functions and a knowledge of the role of Algebra and Topology in Analysis.

8623 FUNDAMENTAL PRINCIPLES OF MATHEMATICS

Topics included are sets, elements of mathematics logic, introduction to real number of system, modular arithmetic, abstract systems.

7654 GENERAL BIOLOGY II

A continuation of General Biology I. Emphasizes genetics, ecology and the diversity of life forms. Lectures, discussions, and laboratory work.

8697 GENERAL ENDOCRINOLOGY

A general study of endocrine glands in chordates, the anatomy of various endocrine glands and their physiological functions in mammals, the results of hypo and hyper action of some-glands, and a survey of the arthropod's endocrine system.

Prerequisite: General Biology.

8842 GEOGRAPHY OF LATIN AMERICA

This course will emphasize the social and economic problems facing the people of Middle America and South America. Selected countries will serve as case studies to show the relationship between geographic forces and these problems.

8848 GEOGRAPHY OF MAN

This course will consider the interaction of man with his environment. The impact of this relationship will be studied in terms of his distribution throughout the world, his cultural characteristics, and his socio-economic development. Selected societies and religions will serve as case studies.

8843 GEOGRAPHY OF MIDDLE EAST AND NORTHERN AFRICA

This course will consider this strategic region within the context of current world tensions. Emphasis will be placed on the region's historical development, Arabization, and socio-economic development. Selected countries will serve as case studies.

8171 GROUP DISCUSSION

A study of the techniques, procedures, and underlying dynamics of group discussion. Emphasis will be upon the application of these procedures by the teacher in the classroom situation.

GUIDANCE IN ELEMENTARY SCHOOL

Objectives: 1) Understanding dynamics of individual and group behavior of children; 2) Development of technical skills in observation, reporting and interpreting personal data; sociometric techniques; recognition of children needing specialized guidance services and making referrals; planning programs for individual students; basic principles, techniques and types of organization for group activities analyzed.

HISTORY OF EDUCATIONAL THOUGHT

This course is an historical approach to the study of educational thought and includes an examination of primary educational concepts which have evolved through western thought to the present day. Selections from the great documents in educational thought are studied in relation to the historical period in which they were produced. The student is expected to read and analyze the original contributions of the major educational philosophers.

HISTORY OF ENGLAND SINCE 1688

The late Stuart and Georgian politics; the industrial revolution; the rise of the British Empire; 19th century conservative and liberal politics and ideas; social, imperial, and intellectual change to 1939.

HISTORY OF THE ENGLISH LANGUAGE

This course is a basic study of the historical development of the English language from Old English to American English. Special emphasis in two areas: the effects of eighteenth century thinking (vs. Renaissance) on modern attitudes toward language and the teaching of language in the schools, and the relations of media and language.

HISTORY OF MATHEMATICS

This course is intended to give an idea as to what mathematics is, how mathematics developed from man's effort to understand and master nature, and how mathematics has molded our civilization. Though the essence of the material presented is mathematics, the subject is shown to be intimately related to physical science, philosophy, religion, music, painting, and the other arts.

This course should serve in the training of teachers of either elementary or secondary school mathematics.

HISTORY OF MODERN GERMANY

After a brief analysis of the background of modern Germany, emphasizing the development of nationalism and liberalism this course will cover the unification and development of the German Empire under Bismarck, its subsequent defeat and fall in World War I, the Weimar Republic, the rise and fall of the Third Reich, and the rehabilitation and continued division of Germany in the post-war world.

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- 8829 **HISTORY OF MODERN IRELAND**
A study of the political, social, religious and economic developments in Ireland from the Treaty of Limerick (1691) to her emergence as an independent nation.
- 8826 **HISTORY OF THE NEW SOUTH**
A survey of Southern history and culture since the Civil War, analyzing its distinctive characteristics, problems, and slow reintegration into American society.
- 8683 **HISTORY OF SCIENCE**
An approach to learning scientific facts and principles by using historical methods focusing on the men whose discoveries and ideas have changed each succeeding generation.
- 8825 **HISTORY OF SOVIET RUSSIA**
A description and analysis of the major events and trends in Soviet Russia since 1917. Special attention will be paid to Russian Revolutionary thought and action, the role of Communist Ideology and the continuity of traditional Russian Nationalism.
- 8804 **HISTORY OF TWENTIETH CENTURY AMERICA**
A description and analysis of major events and forces in American History from the Progressive Era through World War II. Special emphasis on social and political themes and on recent historiographical interpretations.
- 8673 **HUMAN EVOLUTION AND RACE BIOLOGY**
Man and races as viewed by a Biologist — a course integrating the modern concepts in paleontology, paleo-ecology, systematics, evolution, genetics, ecology, and physiology of behavior as applied to the study of man. Discussions will include primates, anthropoid apes, extinct apes and men, study of the varieties of *Homo Sapiens* such as Australoids, Negroids, Caucasoids, and Mongoloids, racial formations, race differences in adaptive characters, culture as an ecological niche, recent discoveries in human fossils, territoriality, aggression and war. Lecture, lab, and demonstrations.
- 8657 **HUMAN PHYSIOLOGY I**
The study of general human physiology and life processes are the basis of this course. The study is approached from a systematic point of view. Characteristics in the control and activity of organs and tissues within the systems are studied. The normal states are emphasized but pathological states will be used where they help in understanding normal functioning. A basic understanding of zoology and anatomy will be helpful prerequisites for the course.

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8666

HUMAN PHYSIOLOGY II

This is a continuation of the first semester's course with more detailed consideration of the various systems in the human body. The mechanics and chemistry of circulation, respirations, digestions and excretion are considered. Intermediary metabolism of proteins, lipids and carbohydrates is briefly reviewed and the hormonal and neural control of cellular and systematic functions is also treated. Some time will also be spent on the functions and action of the special senses.

Physiology I is not a prerequisite but some understanding of the subject matter of Physiology I is assumed.

8164

THE IMPROVEMENT OF READING IN THE SECONDARY SCHOOL

This course is designed to familiarize the secondary school teacher with developmental reading techniques appropriate for students in grades 7-12. Considerable attention will be given to meaningful integration of these techniques with traditional content areas.

8676

INORGANIC CHEMISTRY II

The chemical and physical properties of representative elements will be discussed in addition to the fundamental concepts and laws of electrochemistry, oxidation-reduction reactions and nuclear chemistry.

8711

INSTITUTE ON YOUTH

An outstanding series of programs showing how elementary and secondary school teachers and administrators can work with community agencies to effect better civic behavior by children and youth.

The series will present guest lecturers from the Adolescent Unit of the Children's Medical Center, the Lincoln Filene Center for Citizenship and Public Affairs, the Massachusetts Commission against Discrimination, the Youth Service Board and distinguished representatives of Action for Boston Community Development, juvenile courts, libraries, mental health agencies, police, religious faiths and the United Community Services.

Approved for elementary and secondary teacher certification purposes.

8880

INTERNATIONAL RELATIONS

A systematic analysis of the sources of national power and the nature of national interest and their effects upon such aspects of international relations as foreign policy formulations, nationalism, diplomacy, war, economic development, international law and organization.

8605

INTRODUCTION TO CALCULUS

The course, for teachers of grades 7-12 is recommended by the Committee on the Undergraduate Program in Mathematics.

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The course is designed to stimulate interest in relatively rigorous mathematics while at the same time manifesting some of the great power of the subject as a scientific instrument. The course is a modern treatment of the calculus for functions of one variable with stress on the basic idea but with adequate attention to manipulate skills. The course includes the rate of change of a function, derivative of algebraic functions, and applications of the derivative and integration.

- 8672 **INTRODUCTORY ENTOMOLOGY**
A study of the insect fauna in various natural habitats of the surrounding area. The course includes field trips, collection and classification of insects as well as studies of general morphology, life histories and habits. General biology is a prerequisite.
- 8522 **INTRODUCTION TO FOLKLORE**
An introductory study of the major forms of folklore including the folk-tale, myth, legend, folksong, riddles, superstition, proverbs, and children's folklore. Readings will be in English from selected folk literature around the world.
- 8621 **INTRODUCTION TO GROUP THEORY**
This course will cover the basic concepts of group theory including Finite Abelian group structure, solvable groups, and the Sylow Theorems. Major emphasis will be on examples of groups. Prerequisite: no specific courses, only a minimum level of mathematical maturity.
- 8139 **INTRODUCTION TO INSTRUCTIONAL MEDIA**
An introduction to instructional materials and methods designed to improve teaching. This course includes the use of still pictures, motion pictures, slides, filmstrips, recordings, radio, television, three dimensional materials, field trips, flannel boards, chalkboards, and other aids. Sources and relative availability of materials is also discussed.
- 8847 **INTRODUCTION TO OCEANOGRAPHY**
The sea has always been a challenge, an opportunity and a mystery to man. From our earliest times man has attempted to understand the sea. The origin of the sea, her life, her economic importance, her geological processes, her destructive forces, her recreational facilities, her effect upon climate, and her importance to transportation, are topics which will be studied in the light of our expanding universe.
- 8675 **INTRODUCTION TO ORNITHOLOGY**
A study of birds, their behavior, classification and ecological relationships with other organisms.
Prerequisite: Introductory course in college General Biology.

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- 8618 **INTUITIVE GEOMETRY FOR ELEMENTARY TEACHERS**
The course for teachers of "Elements of Arithmetic," (Grades K-6) is recommended by the Committee on the Undergraduate Program in Mathematics. The course is a study of space, plane and line as sets of points considering separation properties and simple closed curves; the triangle, rectangle, circle, sphere and the other figures in the plane and space (considered as sets of points with their properties developed intuitively).
- 8015 **ISSUES AND TRENDS IN THE ELEMENTARY SCHOOL**
This course will discuss crucial contemporary issues such as social changes in America and their effects upon school programs. Topics of discussion will range from student haircuts, drug abuse and family life education to new methods in the 3 R's. The course will be of value to classroom personnel as well as to supervisory and guidance workers.
- 8130 **KINDERGARTEN I**
Trends in kindergarten education — Behavior patterns of 5-year old child — The kindergarten teacher — The learning environment — The different child — Creativity — Records and sports.
- 8131 **KINDERGARTEN II**
This course is devoted to the creation of a year's program for the kindergarten child — an analysis of the concepts to be developed during the kindergarten year. The features of a day's program will also be studied.
A course in child growth and development is beneficial to the student taking this course; it is not a requirement.
- 8166 **LANGUAGE ARTS IN INTERMEDIATE GRADES**
This course will concern itself with the dynamic role of language experiences in the elementary school program. Emphasis will be placed on the interrelationship of the major facets of communication as the vital link in the educational experiences of the child. Current research will be reviewed and attention will be directed to its utilization in school programs to meet the complex demands on today's children.
- 8165 **LANGUAGE ARTS IN PRIMARY GRADES**
This course is planned to help the primary teacher to improve teaching of language arts as creative tools of communication. Development of the skills of listening, handwriting, spelling, the mechanics of writing, good usage, an enriched vocabulary will be considered. Emphasis will be placed on the importance of literature. Methods and techniques which foster creative oral and written expression will be demonstrated and practiced.
- 8718 **LEARNING DISABILITIES**
This course is designed for the teacher, counselor or psychologist work-

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ing with young children who may have learning disorders. The symptomatology and diagnosis of the motorically, perceptually and conceptually handicapped child will be reviewed with emphasis on the psychological, social and mental factors associated with such disabilities. Analysis and evaluation of research and methods of management will be considered.

8608 LINEAR ALGEBRA

The course for teachers of grades 7-12 is recommended by the Committee on the Undergraduate Program in Mathematics.

The course is concerned with the axiomatic approach of the blending algebraic and geometric concepts. Topics included are abstract systems, vector spaces, linear transformations, and matrices.

8615 LINEAR EQUATIONS AND MATRICES

The course begins with ideas familiar from high school mathematics and proceeds to the development of matrix algebra and its applications. Subjects are covered from both theoretical and practical viewpoints. Topics include systems of linear equations, algorithms, flow charts, matrices, inversion of the matrices and the solution of matrix equations.

8160 LITERATURE FOR CHILDREN

A course in the content of children's literature through grade eight. The categories treated are traditional tales (myths, folk tales, legends, fables), modern realistic stories, travel books, biographies, histories, nature writing, and volumes of verse.

8529 MAJOR RENAISSANCE DRAMATISTS

Reading of the major plays of these contemporaries of and successors to Shakespeare: Marlowe, Jonson, Webster, Middleton, Beaumont, and Fletcher, and Ford. Although the close reading of texts will be the main concern, discussion of such topics as comparisons and contrasts to Shakespeare; the social, political and cultural background; the change from Elizabethan to Jacobean society; the nature of tragedy, comedy, satire, and tragicomedy, staging, theaters, and the audience will be included.

8306 MAKING OF FOREIGN POLICY

The process of the formation of foreign policy will be examined in selected, developed and developing states, including the United States, the Soviet Union, the Chinese People's Republic, India, Zambia, and others.

8275 MAN: A COURSE OF STUDY

This course will consider the basic question; "What is human about human beings?" as an organizing question for an upper elementary social studies course. The class will investigate the problems and oppor-

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tunities presented in dealing with content areas such as the social behavior of primates, life cycles, survival strategies in man and other animals and the relationship between technology, social organization, and values.

8905 MAN AND THE FINE ARTS

A general introduction to art which will include a study of man's development and the influence of his environment upon his efforts. Emphasis will be placed on the appreciation of the aesthetic, cultural, and social aspects of the periods of historic styles. Lectures will be illustrated, dealing with the fundamental ideas of the works of art and their meaning, from the standpoint of purpose, form, content and technique.

8692 MARINE BIOLOGY

Ecology, morphology, behavior, and physiology of marine invertebrates. Special attention will be given to the fauna of New England waters and the economically important forms such as clams, oysters, shrimps, lobsters, etc., of the North American Atlantic. Field trips to local Marine environment. One year of General Biology is a prerequisite.

8851 MARINE RESOURCES

The biological, geographical and recreational aspects of the sea will be surveyed. Special emphasis is placed on the economic value of the Marine resources to Massachusetts.

8863 MASSACHUSETTS: ITS HISTORY AND GOVERNMENT

This course will give the teacher an opportunity for a comprehensive study of both the history and the government of the Commonwealth. It will present the necessary background materials for compliance with the state laws on the teaching of those subjects.

8862 MASSACHUSETTS POLITICS

A study of state politics, organization and functions. The legislature, executive, and judicial systems, bureaucrats, and interest groups in the state and local governments in the American system.

9305 MASSACHUSETTS SCHOOL LAW

The purpose of this course will be to acquaint teachers, supervisors and school administrators with the legal responsibilities and limitations placed on them by governing bodies. Such subjects as tenure, discipline, financial responsibility and state aid will be explored with reference to the legal implications involved.

8904 MASTERPIECES OF CLASSICAL MUSIC

This will be a study of the greatest works of the main masters of this period. The course will include the growth and reform of the opera,

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symphony, and string quartet. Works of Gluck, Puccini, Mozart, Haydn, and Beethoven will be discussed. There is no prior music training required for this course.

8906 MASTERPIECES OF ROMANTIC MUSIC

The aim of the course is to acquaint the student with the best music from the Romantic Era. A study of some of the great works of the masters will be made through listening to recordings and live performances. Examples will be used to show the art song, song cycle, tone poem, symphony, ballet, etc. The works of Schubert, Brahms, Tschai-kovsky and others will be used. No prior music training is required for this course.

8619 MATHEMATICAL DISCOVERY

The course is concerned with problem solving from the heuristic point of view and analyzes generally the ways and means of discovery of problems solutions. The aim is an understanding of and improvement in problem solving, and the means of teaching problem solving.

8204 MATHEMATICS FOR JUNIOR HIGH SCHOOL

The mathematical content provides a review of the fundamentals of arithmetic with emphasis on number systems. Number systems are treated from an algebraic viewpoint to deepen the student's understanding of arithmetic and prepare him for algebra. Other topics include informal treatment of coordinates and equations, percent applications, graphs, probability and extensive treatment of geometry from an informal deductive approach.

8209 MATHEMATICS FOR KINDERGARTEN TEACHERS

This course will be a laboratory approach to mathematics content relevant to the early elementary grades. Included will be elementary topics from sets, numeration, number operations and properties, geometry, and number systems.

8624 MATHEMATICS METHODS FOR KINDERGARTEN TEACHERS

This course will be a laboratory approach to methodology. Included will be a discussion of learning theories, teaching strategies, consideration of and development of various materials of instruction, and evaluative procedures.

8532 METHODOLOGY IN BILINGUALISM AND ESL, PART I

This course will treat topics in second language acquisition and applied teaching methodology in teaching English to speakers of other languages. Contrastive studies and special issues in bilingualism will be covered.

8533 METHODOLOGY IN BILINGUALISM AND ESL, PART II

A continuation of first semester work. The principal focus will be on

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the practical application of learning theory and experience. The course will include live demonstrations of language teaching procedures and peer teaching. Participants will conduct classes before their peers based on the "Micro-Teaching" concept.

8010 METHODS AND MATERIALS IN THE ELEMENTARY SCHOOL

This course will deal with the organization and planning of course content in the elementary school. Background will be provided in the selection and utilization of instructional materials; classroom management; and a comparison, appraisal, and evaluation of teaching techniques. Applications of general principles will be made in the light of accepted educational practice.

8012 METHODS IN SECONDARY EDUCATION

This course examines the secondary school in a democratic society. The main emphasis is on objectives and procedures, choosing appropriate content and materials, classroom organization and management, meeting of individual difference, and in evaluation.

8290 METHODS OF BUSINESS EDUCATION OF SECONDARY SCHOOL I

The aim of the course is to aid both present and prospective business teachers to extend their professional horizons in order to improve their teaching methods. Attention will be given to the following teaching process as applied to business subjects with the necessary teaching techniques, objectives of business education through a study of the curriculum.

8963 METHODS OF CONDITIONING IN ATHLETICS

This course is designed to present current methods and concepts of athletic training and conditioning. Emphasis will be placed on fitness conditioning programs such as: aerobics, circuit training, interval training, isometric and isotonic strength training, and progressive weight training specific to sports. Basic concepts for guiding, training conditioning, diet and nutrition in athletics will be examined.

8150 METHODS OF TEACHING ENGLISH IN SECONDARY SCHOOL

Techniques involved in the teaching of usage, composition, vocabulary, literature, and critical listening. Discussion of typical classroom situations. Examinations of recent studies in the field of secondary school English.

8822 MODERN DRAMA

An extensive survey of dramatic literature, focusing upon the evolution of the theatre from Ibsen to the contemporary scene. Plays by Ibsen, Strindberg, Chekhov, Shaw, O'Neill, Brecht, Williams, Albee and others.

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- 8839 **MODERN EUROPEAN GOVERNMENTS**
A study of the major governments of Europe, including the U.S.S.R., Great Britain, France, and Germany. Also to be studied, will be the roles played by the political parties and interest groups of those countries.
- 8822 **MODERN EUROPEAN IMPERIALISM**
A survey of the motives and methods of European imperialism in Africa and Asia during the late nineteenth and early twentieth centuries. A detailed study will be made of its effects upon selected colonies, their struggle, increasing nationalism, and their struggle for independence in the mid-twentieth century.
- 8623 **MODERN GEOMETRY FOR THE SECONDARY SCHOOL**
The purpose of the course is to provide an opportunity to consider and devise teaching aids and procedures to make the study of geometry meaningful and interesting to the low achiever, whether he be poorly motivated or of low native ability.
- 8502 **MODERN NOVEL**
The purpose of this course is to develop an appreciation of modern literature and its trends. Among the chief novelists since 1890 that will be discussed are Hardy, Galsworthy, Joyce, Wolfe, and Greene.
- 8509 **MODERN SHORT STORY**
The course will examine the artistry and social significance of short stories. Many different authors will be represented, including Edgar Allen Poe, Henry James, Katherine Anne Porter, and Eudora Welty.
- 8694 **MOLECULAR BASIS OF LIFE**
This discussion-seminar course will explore the methods that biologists have developed over the past thirty years to study molecular processes in cells. Topics of wide biological interest such as the discovery of the genetic code, enzyme structure and function, and energy transformation will be considered. Other topics that the group may choose to consider include immune responses of animal cells, genetic bases of development, biological clocks within cells, of the molecular basis of memory. A year of biology and a year of chemistry are prerequisites.
- 8838 **NATIONAL LEGISLATIVE PROCESS**
How responsive is the United States Congress? Course examines institutional and political factors influencing public policy-making and analyses proposals for reform. Opportunity for individual research. Roll-call analysis. American government is a prerequisite.
- 8824 **NINETEENTH CENTURY EUROPE**
Reaction, revolution, and reform from Metternich to Bismarck; indus-

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trialization and scientific progress; emergence of nationalism, liberalism, socialism, and imperialism; national developments and international alliances.

8601 NUMBER SYSTEM FOR ELEMENTARY TEACHERS I

The course is recommended for teachers in Grades K-6 by the Committee on the Undergraduate Program in Mathematics.

The course is a study of logic, sets, counting numbers, numeration, systems, and bases other than ten.

8602 NUMBER SYSTEM FOR ELEMENTARY TEACHERS II

The course is recommended for teachers in Grades K-6 by the Committee on the Undergraduate Program in Mathematics.

The course is a study of numbers used in elementary schools. Topics included are integers, some elementary number theory, prime numbers, rationals, irrationals, approximations, real numbers, and congruences.

8629 NUMERICAL METHODS OF DIGITAL COMPUTING

The course is concerned with providing usable computer methods for solving the more elementary problems in applied mathematics. Topics included are: Review of Fortran, computer arithmetic, accuracy and numerical integration, and other selected topics. Computer Science or an equivalent is a prerequisite.

8404 OCCUPATIONAL INFORMATION

An examination of the distributive function of guidance information both occupational and educational. The course will investigate materials appropriate for the various grade levels. Methods of presentation will be evaluated. Individual and group approaches will be studied. Consideration will be given to the necessity of a realistic assessment of abilities and personality characteristics and their relationship to career planning.

8405 OCCUPATIONAL INFORMATION FOR SPECIAL CLASS PUPILS

This course is designated to acquaint the teacher with an occupational program suitable for special class adaption. It will explore the pupil eligibility and adaptability to a job oriented course that will fulfill the latest regulation of the State Department of Education and "Occupational Training Program for Mentally Retarded Children." Emphasis will be placed on the curriculum, community involvement and services, and the desirability of training a pupil until a level of employability is determined.

9403 ORGANIZATION AND ADMINISTRATION OF GUIDANCE

The purpose of this course is to acquaint the classroom teacher with the

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problems involved in the establishment of guidance programs at the elementary and secondary school levels, and exploration of possible solutions to these problems. Criteria for the evaluation of these programs and factors involved in their effective continuance will receive full consideration.

8954 ORGANIZATION AND ADMINISTRATION OF THE INTRAMURAL PROGRAM

This course will cover the major problems facing the intramural program in our schools today. It will include organization of units for competition, planning time, program of activities, point systems, awards and recognition, rules and regulations, facilities, co-recreation activities, and financing of the intramural program in the Elementary, Junior and Senior High Schools.

8170 PERFORMANCE OBJECTIVES AS PLANNED LEARNING

At the end of this course the participant will be able to write instructional objectives for his students in performance terms, to develop procedures to achieve them, and to specify criteria to measure them. He will be able to select media that will efficiently implement each process. He will present objectives in a number of program plans. He will be able to classify each objective in a hierarchy of learning outcomes according to cognitive, affective, and psychomotor behaviors.

8980 PHILOSOPHY OF PHYSICAL EDUCATION AND ATHLETICS

This course is designed to explore the underline philosophy basic to Physical Education and Athletics. Views of outstanding men in the field will be presented. Primarily for those working at the secondary level.

8958 PHYSICAL EDUCATION FOR THE ATYPICAL CHILD

This course is designed to aid the field of education to work better with the physically handicapped individual. It will cover common diseases encountered in normal physical education classes in schools especially designed for the handicapped; also therapeutic exercise and the use of psychology as it applies to the handicapped will be emphasized.

7651 PHYSICAL SCIENCE I

An introductory course for non-science majors, in which selected topics from physics are studied.

Prerequisites: None

Restrictions: None

7652 PHYSICAL SCIENCES II

A continuation of the course Physical Science I: in this part of the course selected topics from the fields of chemistry and astronomy are studied with the same points of view in mind as in the preceding course.

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- 8847 **PHYSICAL OCEANOGRAPHY**
This course explores the historical, geological and physical aspects of oceanography.
- 7650A **PHYSICS 302**
Continuance of Physics 301. This course presents the fundamentals of electricity, magnetism, wave motion, and elementary atomic physics.
Prerequisite: P301
Restrictions: None
- 9312 **PLANNING AND ORGANIZING AN OPEN SPACE ELEMENTARY SCHOOL**
This course will trace and define the role of an administrator from the inception of an elementary school through the planning stages and culminate in a review of educational programs that may be applicable to a modern elementary school.
Included in this course will be a study as to how an urban community, parents, and staff may be brought into the planning and introduction of a new school. Principal and other personnel who have had experience in planning urban schools will be invited to discuss their challenges and solutions.
- 8811 **POLITICAL PARTIES AND PUBLIC OPINION**
This course includes a study of the organization and influence of political parties on national politics, the pressure groups and means of channeling public opinion, and the effectiveness of propaganda in the political process, with particular stress on the Democratic state.
- 8885 **POLITICAL THEORY**
An elective for sophomores and juniors. Covers the major political doctrines held by theorists from Plato to Hobbes. Special attention given to placing each theorist in the proper cultural context.
- 8627 **PRE-CALCULUS**
The course is designed to provide a background for courses in the calculus. Topics include sets, logic, special functions, and polynomials.
- 8875 **THE PRESIDENT: POWERS AND PRIORITIES**
This course examines the machinery and dynamics of presidential power, the decision-making process, and great consequences of presidential choices. American government is a prerequisite.
- 8242 **PRINCIPLES OF ART EDUCATION**
An introduction to principles and philosophy of Art Education. There will be a study of children's art forms and expression in relation to their growth and development. The influences and implications of the Behavioral Sciences upon Art Education will also be explored. This course is

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designed for anyone interested in children and gaining a fuller understanding of the child's visual language of experience.

8400 PRINCIPLES OF GUIDANCE

This course is an introductory course designed to provide the student with an understanding of the need, meaning, and scope of guidance services. The principles and practices involved in the following guidance areas will be considered: introduction and philosophy of guidance; understanding the individual and his needs; essential orientation activities for the student; collecting, recording, and evaluating data; interviewing and counseling; guidance through group activities; placement and follow-up activities; organization and evaluation of guidance.

8850 PRINCIPLES OF PHYSICAL GEOGRAPHY

The purpose of this course is to develop an awareness, understanding, and appreciation of the elements of man's natural environment. The utilization of the tools of geography will be stressed throughout the course.

7294 PRINCIPLES AND PRACTICE OF DRIVER EDUCATION

This course will focus attention on the studies that relate to drive behavior and attitudes and evaluation of the effectiveness of the current programs in terms of their objectives. Studies will be directed toward the problems of providing more effective instruction in various aspects of the Driver Education and Traffic Safety programs.

8610 PROBABILITY AND STATISTICS

Topics such as the normal distribution and the central limit theorem are covered and examples are used to give a physical interpretation of probability. Also treated are sample spaces, conditional probability, Independence Bayes, Theorem, random variables and expectation.

Two years of high school algebra are required, and some knowledge of geometry is also helpful.

8835 PROBLEMS OF WORLD POLITICS

An analytical examination of the crucial major problems currently confronting states in their political, economic, and cultural relations.

8138 PRODUCTION OF EDUCATION MEDIA

Emphasis on the design and production of instructional media for classroom use. Students will design transparencies, produce magnetic tapes, prepare slides and single concept films in keeping with their teaching discipline. Prior audiovisual experiences is not a prerequisite.

**8541 PSYCHOLOGICAL AND SOCIOLOGICAL ASPECTS OF
LANGUAGE LEARNING**

Principles of psycholinguistics and sociolinguistics and their application to second language acquisition and to bilingualism.

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8000

PSYCHOLOGICAL FOUNDATION OF EDUCATION

This course covers the theoretical aspects of psychology for the classroom teacher. It includes a systematic analysis of the major schools of psychology and a study of the effect of hereditary and environment. Reading in the areas will be required: results of research on growth and development, theories of intelligence, concepts in measurement and evaluation, individual differences in capacity and achievement, and learning theory.

9404

PSYCHOLOGICAL TESTS IN GUIDANCE

The principles of psychological testing are discussed, especially as applied to guidance and counseling. The course covers the historical background of psychological testing, elementary statistical concepts needed in understanding and group tests of aptitude, achievement, interests and personality. Special emphasis is placed on the use of tests in guidance and counseling. Successful completion of this course will satisfy the tests and measurements for Massachusetts guidance certification.

8720

PSYCHOLOGY OF CREATIVITY

An in-depth study of current research on creativity. Topics include: Definition problems; creativity vs. intelligence; creativity and mental health; the creative process; teaching for creativity, etc. Recent tests of creativity are explored as well as materials designed to encourage creative behavior in the classroom. Teachers should be able to design their own creative classroom and materials by the end of the course.

8267

PSYCHOLOGY AND EDUCATION OF THE EXCEPTIONAL CHILD

This course serves as an introduction to the field of Special Education. It will be concerned with the characteristics, incidence, educational needs and programs for exceptional children including the mentally retarded, gifted, auditorally-handicapped and the emotionally/socially handicapped.

8715

PSYCHOLOGY OF SUBNORMAL AND UNADJUSTED CHILD

This course is designed to aid in planning education that provides for optimum conditions of growth and development of subnormal and unadjusted children. Curriculum content and organization of special schools and classes will be evaluated, with emphasis on the unit method of teaching.

8401

PUPIL PERSONNEL AND PLACEMENT

This course will provide an understanding of the concept, structure, and content of pupil personnel services and of the adjustive and distributive goals. Emphasis will be placed on the coordination of special services to the student in school with the placement services to the student as he leaves school for employment or further education.

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- 8883 **RACE RELATIONS**
A survey of the ethnic minorities in the United States, past and present.
- 8693 **RADIATION BIOLOGY**
An introductory course designed to give participants an understanding of safety measures and biological effects of ionizing radiation. Students must have completed one year of general biology prior to taking the course. Some background in physics and chemistry is desirable but not required.
- 8538 **READING AND ORAL PRACTICE**
This course is designed for students who understand Spanish readily but who need to gain confidence and efficiency in speaking and reading. Oral and written critical analysis of assigned stories and articles, readings of newspapers and discussion of current events.
- 8018 **READING AND STUDY SKILLS IN SECONDARY SCHOOL AND COLLEGE**
This course is designed to meet the needs of teachers who will instruct in developmental reading programs at the secondary school or college level. The components include: developing instructional objectives and task sequences in reading, improving speed, comprehension, organization recall, study techniques, vocabulary, perception and spelling, a review of materials and media on the fields.
- 8152 **READING IN THE ELEMENTARY SCHOOL I**
This is an introductory course in the teaching of reading for those who have not taken courses in reading. It will concern itself primarily with the modern reading program, materials of instruction, principles and practices of grouping, preparation of materials for the classroom use, and evaluation of reading progress.
- 8162 **READING IN THE PRIMARY GRADES**
The course will deal with all phases of reading at the primary level. The various approaches to the teaching of reading currently in the use as the basal reader approach, phonetic approaches, linguistic methods, individualized reading, programmed reading will be discussed and demonstrated. Practical suggestions will be given for helping the slow learner, the academically talented, the average child, the bilingual and the culturally different child.
- 8972 **REFERENCE MATERIALS**
This course, required for certification of school librarians, introduces the student to a wide range of reference books. General reference works and those of a more specific nature are dealt with. Emphasis is on knowledge of works covered, their arrangement and use. Enrollment is not limited to library science students.

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- 8849 **REGIONAL GEOGRAPHY OF SOUTH AND EAST ASIA**
This course provides a survey of the physical, cultural, and economic origins of Asia. This background is then utilized to provide an understanding of the major social, economic, and political problems facing this continent.
- 8172 **REMEDIAL READING I**
This course will investigate the causes and conditions which contribute to reading problems at the elementary level; it will establish techniques to identify problems; review some of the means to measure degree; determine means to contribute to solutions.
- 9000 **RESEARCH AND EVALUATION**
This course will stress the use of appropriate research methods in the selection and evaluation of data. It is designed to aid teachers in the preparation and understanding of educational research reports. Points of emphasis will include the nature of research, library techniques and resources, selection and delimitation of problems, documentation, organization and format of a report, appraisal of educational literature, necessary statistical concepts and methods of research. The student will be expected to demonstrate his knowledge of these in a term paper.
- 8276 **RESOURCES FOR SPECIAL EDUCATION**
This course will provide for a general orientation to the resources for the teacher of special education, with emphasis upon the emotionally disturbed child. Included will be a review of community and school resources, roles and contributions of various significant related child-care disciplines (including psychiatrist, psychologist, social worker, special services, nurse, teacher aide, tutor, consultant, pediatrician, etc.) problems in the referral process, and a survey of related recent developments such as those reported by the Federal Commission on Mental Health of Children.
- 8304 **ROLE OF THE SCHOOL COMMITTEE IN SCHOOL ADMINISTRATION**
The history and the development of the School Committee as an integral part of the American process will be studied. Attention will be given to the School Committee's responsibility in the following areas: organization, finance, appointment of personnel, curriculum, school construction, Federal and State aid, lunch program, pupil transportation, ethics, meetings, and school population.
Particular emphasis will be placed on Society's ever-increasing transfer of responsibilities to the "schools", and the subsequent need of the School Committee to develop curriculum to meet the challenge.
- 9300 **SCHOOL ADMINISTRATION**
This course will introduce those aspects of administrative practice which

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result from current thought and research findings. Both a case study and in-basket approach will be utilized to explore decision making on both a school and a school system level. Students will play a part in designing the case studies most pertinent to their administrative needs.

Organization for instruction in team teaching, team learning, non-gradedness, middle school and innovative programs for the secondary school will be discussed. The dynamics of planned change will be investigated throughout the course.

8970 SCHOOL LIBRARY ADMINISTRATION

This course is designed to introduce the potential librarian to the methods used in administering the library in the modern school. Emphasis is on the role of the library and the librarian in the total educational program of the school.

9306 SCHOOL PLANT OPERATION AND PLANNING

This course is designed to acquaint school administration and those teachers who are aspiring for administrative positions, with the many facets of School Plant Operation and Planning. Students will be instructed in such topics as enrollment projections, physical plant planning including site selection, construction and materials, selection of classroom and maintenance equipment, and non-teaching staffing. Students will be given the opportunity to concentrate their study of the buildings and grounds operation of a school system either at the elementary, junior, or senior high school levels.

9304 SCHOOL PUBLIC RELATIONS

The purpose of this course will be to study the process of communication between the school and community for the purpose of increasing understanding of educational needs and practices, and to encourage citizen interest and cooperation in the work of improving our schools.

8200 SCIENCE IN THE ELEMENTARY SCHOOL I

This course is designed to aid classroom teachers at the elementary school level. The objective of the program will be discussed and illustrated by suitable demonstration, audio-visual aids and science texts. The course will be of value to the teacher who wishes to improve his program in science.

8201 SCIENCE IN THE ELEMENTARY SCHOOL II

This course is an extension of Part I. Further topics considered in this portion of the course will include experimental methods of teaching, the field trip, the science fair and group projects. Separate registration for this part of the course is possible.

8262 SCIENCE IN THE SECONDARY SCHOOL

This course will indicate the practices and trends in the teaching of

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science at the junior and senior high school level. Topics to be included will be curricula, the problems of laboratory instruction, classroom demonstrations, the role of the textbook and the use of the audio-visual aids.

9301 SECONDARY SCHOOL ADMINISTRATION

A study of current practices and major trends in educational administration. The problems involved in organizing, administering and supervising a secondary school will be stressed. Consideration will be given to the responsibility of the administrator and teacher as educational leaders as well as the detailed duties of a secondary school principal.

8629 SET THEORY AND LOGIC

The course includes symbolic logic, proofs, axiom systems, sets, cardinal numbers and number systems.

8515 SHAKESPEARE I

Six plays representative of Shakespeare's art are to be studied and analyzed: Henry V, Richard III, The Taming of the Shrew, Twelfth Night, Othello, and Macbeth.

8516 SHAKESPEARE II

Six plays representative of Shakespeare's art are to be studied and analyzed: Henry IV Part I, Henry IV Part II, Much Ado About Nothing, The Tempest, King Lear, and Hamlet.

8517 SHAKESPEARE III

Six plays representative of Shakespeare's art are to be studied and analyzed: Richard II, Julius Caesar, A Midsummer's Night Dream, As You Like It, Romeo and Juliet, and Antony and Cleopatra.

8264 SIMULATION GAMES IN NEW SOCIAL STUDIES

This course will examine the value of Simulation Games and how teachers can use and develop their own games. A variety of games will be played and evaluated in class.

8889 SOCIOLOGY

This course will treat the principles of sociology and their application to present-day social problems. Special attention will be given to the following areas: criminology, demography, juvenile delinquency, marriage and family relations, personality conflicts within the Euro-American culture, racial prejudice, the sociology of war, and the social ethics of teaching.

8849 SOUTH AND SOUTHEAST ASIA

This is a course covering the regional geography of Southeast Asia. It embraces the study of the region's location, climate, natural vegetation,

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agriculture, minerals and power resources, transportation, manufacturing, and trade. The present geo-strategic significance of the area will be studied.

8831 SOVIET FOREIGN POLICY

An analysis of the historical, ideological and pragmatic reasons for present day Soviet Foreign Policy. Also to be discussed will be the position that U.S.S.R. occupies in world affairs, as well as the problems that she has encountered since 1950.

8271 SPECIAL CLASS METHODS

This course is designed to familiarize public school teachers and others with current methods and materials used in teaching trainable and educable mentally retarded children. Particular emphasis will be placed upon curriculum, demands at the elementary and secondary levels. Included within this course will be intake and review procedures and post-school programs. Core-curriculum and unit methods will be discussed.

8273 SPECIAL CLASS METHODS FOR EMOTIONALLY DISTURBED CHILDREN

The purpose of this course will be to examine the problems of interaction in the classroom and their effects on teaching methods. Class discussion will be based primarily on readings, student reports, and selected problems in classroom management.

8168 SPEECH FOR THE CLASSROOM TEACHER

An intensive course in the techniques of effective speech communications for all classroom teachers with emphasis on lecture and discussion skills.

Individual recordings and voice analysis included.

8704 STANFORD-BINET

An intensive study of the 1960 Revision of the Stanford-Binet Scales of Intelligence, with emphasis on administration and interpretation. Opportunity will be presented for students to become certified examiners with the Binet.

8285 SUPERVISION AND ADMINISTRATION OF SPECIAL EDUCATION

This course is designed as an introductory course in Supervision for teachers, administration and supervisors of programs dealing with the handicapped child. Particular emphasis will be placed upon types of handicapping conditions and the pupil and professional services needed. Problems at the Federal, State, and local levels will be explored.

9307 SUPERVISION IN THE MODERN SCHOOL

This course is designed as an introductory course in supervision for teachers, school administrators, and supervisors of both the elementary

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and secondary levels. Significant topics included in the course are: concepts of supervision; principle of supervision; organization for supervision; group process; techniques of supervision, and the evaluation and improvement of instruction, curriculum and the supervisory program. Opportunities will be provided for concentrated study and application of the materials of the course to elementary, secondary, or special subject work. This course or its equivalent is prerequisite for all advanced courses in supervision.

8537 SURVEY IRISH LITERATURE

A survey of Irish literature: earliest times to 1800, pagan cycles, religious poems and works, bardic productions, voyage literature, hedge schools.

8167 TEACHER DIAGNOSIS OF LEARNING DIFFICULTIES

This course will discuss in detail the problems that most frequently hinder children's learning process. Emphasis will be put upon the many formal diagnostic tools, that can be used by any classroom teacher, plus formal techniques, for identifying social problems and psychological problems as well as teaching methods for difficulties that affect children. In addition various remedial procedures will be suggested.

The course will be of value to all classroom teachers, administrative personnel, and pupil personnel service workers.

8114 TEACHING ABOUT THE CITY

This is a workshop course designed to give the teacher the opportunity to become familiar with, to analyze, to use, and to evaluate the use of new materials dealing with urban issues. The program emphasizes the case-study approach to teaching, inductive discussion, student participation. The materials to be used were developed by school teachers from Boston and other communities in cooperation with the Lincoln-Filene Center staff. These materials are being used extensively during the current academic year.

The course will draw members of the Lincoln-Filene Center staff for various workshop sessions.

8263 TEACHING AMERICAN FOREIGN POLICY AT SECONDARY LEVEL

This course is open to all junior and senior high school social studies teachers. The course focuses on the evaluation of new materials designed at Lincoln-Filene Center for the teachers of American Foreign Policy. Case studies, simulations, and films will make up the course materials and resources.

8279 TEACHING CHILDREN ABOUT TECHNOLOGY

The course will be organized around several basic questions. What is technology? On what human capacities does the development of tech-

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nology rest? How does the development of technology affect man's way of living? How does it affect his environment? How can man use technology to create a more human way of life? How can man use technology to create a better environment? Students will be expected to consider the objectives and problems in preparing innovative material that will help elementary school children address these questions. The class will be limited to 20 teachers in grades 5-8.

8117 TEACHING CONSUMER EDUCATION

A workshop course designed to assist junior high and senior school teachers prepare materials for teaching consumer education either as a separate course or within a social studies program.

Required: Participants must be teachers at junior or senior high level and anticipate working in area of consumer education.

8274 TEACHING INTERGROUP RELATIONS AT THE ELEMENTARY SCHOOL LEVEL

The main objective of this course is to explore innovative ways of teaching about intergroup relations to elementary school students. The intergroup Relations Curriculum, developed by the Lincoln-Filene Center, Tufts University, will serve as the basic foundation for the course, and considerable research and development in intergroup relations education will also be analyzed. Films dealing with the Black Experience in America, sensitivity, prejudice, and class demonstration lessons will be used. Field testing of the curriculum will be expected for those actually engaged in teaching, with feed back sessions for the entire class. The course will be directed by members of the staff of the Lincoln-Filene Center.

8211 TEACHING INTRODUCTORY PHYSICAL SCIENCE

An elementary course for the classroom teacher with little or no background in science. The emphasis will be on projects and activities which can be performed in the classroom.

8154 TEACHING LANGUAGE ARTS IN PRIMARY GRADES

The course will present an overview of current trends in teaching the language arts at primary level. Speech improvement, oral and written language, spelling, handwriting, and stimulative creativity will be discussed. Suggestions will be given for teaching the average child, the bilingual child, and the culturally different child.

8154-1 TEACHING LANGUAGE ARTS IN THE ELEMENTARY SCHOOL

This course will concern itself with dynamic role of language experiences in the elementary school program. Emphasis will be placed on the interrelationship of the major facts of communication as the vital link in the educational experiences of the child. Current research will be

reviewed and attention will be directed to its utilization in school programs designed to meet the complex demands on today's children.

8159 TEACHING MODERN GRAMMAR IN SECONDARY SCHOOLS
A general survey of recent developments in linguistics and their relevance to the teaching of English grammar on a secondary level. The course includes an examination of theories and structures of structural linguistics and transformational grammar and their practical application in the classroom.

8243 TEACHING MUSIC IN GRADES 1-8
A methods and materials course comprising musicianship and the teaching principles involved in school music activities.

8016 TEACHING READING AND STUDY SKILLS IN SECONDARY SCHOOL AND COLLEGE
This course is designed to meet the needs of teachers who will instruct in developmental reading programs at the secondary school or college level. The components include: developing instructional objectives and task sequences in reading, improving speed, comprehension, organization recall, study techniques, vocabulary, perception and spelling, a review of materials and media in the field.

8256 TEACHING SOCIAL STUDIES IN SECONDARY SCHOOL
The objectives of the social studies in the Secondary School; instruction in the various methods of teaching the social studies with special emphasis on the Problems Approach method. Techniques for the teaching of contemporary affairs and controversial subjects will be developed.

8014 TEACHING TECHNIQUES IN ELEMENTARY SCHOOL
This course will deal with organization and planning of course content in the elementary school, selection and utilization of instructional materials, classroom management, and evaluation of teaching techniques and general principles.

8259 TEACHING THE NEW SOCIAL STUDIES
The conceptual approach to the study of the Social Sciences will be discussed. The class will examine how to develop structures of learning which will facilitate the understanding of the desired concepts. Various methods and materials which can encourage thinking or discovery will also be explored.

8707 TESTS AND MEASUREMENTS
This course is designed to provide the teacher with an understanding of the processes of educational measurement and an appreciation of the various test materials available.

9701

THEORY AND PRINCIPLES OF COUNSELING AND PSYCHOTHERAPY

Designed for those students with special interests in the dynamics of interpersonal interaction between a professionally trained counselor or therapist and counselee or patient. Course will emphasize Definitions, Theories, Techniques, Process, and Basic considerations in interviewing as dimensions of Counseling and Psychotherapy. The sequential study of the process of treatment will be discussed and other techniques as group therapy, hypno-therapy, role playing and psychodrama. Restricted enrollment.

8833

THE UNITED NATIONS SYSTEM

This course will focus on the United Nations and its specialized agencies, such as the International Labor Organization and Unesco. The course will also cover such topics as U.N. peacekeeping operations, disarmament, economic aid to the developing nations, problems of the environment, and the codification of International Law.

8862

URBAN CURRICULUM DEVELOPMENT

A course designed to discuss structure, process, and implementation of curriculum for city schools, with specific references to the input provided by teachers, students and various community resources. The course will be divided into three major segments; Individual Class Curriculum, Regional or Sectional Curriculum and Uniform City Curriculum.

8136

URBAN EDUCATION

The focus of this course will be on the inner city classroom and the diverse role required of the urban teacher. A pragmatic approach to current educational theory and practices within the urban setting will be explored as well as evaluated. The topics to be discussed will include: housing conditions, the family, community interaction, attitudes and value differences, etc. These will be related to the urban classroom and their effect upon the learning situation.

8840

URBAN GEOGRAPHY

A study of the influence of geographic factors in urban area and distribution of economic activities within the urban complex. Problems of suburban growth and development, metropolitan problems and planning will also be discussed.

9863

URBAN GOVERNMENT AND POLITICS

This course is suitable for urban teachers. Principal goals are to understand the black power movement, the role of politics, planning, community control and disorders. The role of legal controls, such as law enforcement will also be discussed.

8888

URBAN SOCIOLOGY

Processes of urbanization and suburbanization. Theories of community. Structure and function of sub-communities and neighborhoods. Sociological analyses of problems of megalopolis.

8141

USE OF AUDIO-VISUAL EQUIPMENT IN EDUCATION

The course is designed to acquaint the student with the operation and problem-solving procedures in utilizing Audio-Visual Equipment commonly found in educational settings. Discussions will include sources and availability of soft ware to be used with each piece of machinery.

8409

VOCATIONAL TRAINING AND PLACEMENT OF THE MENTALLY RETARDED

This course would be designed to familiarize public school teachers, guidance counselors, and administrators with up-to-date procedures and methods needed to service students with learning difficulties in the secondary school. Among the topics presented to the group would be: (1) The improvement of the special education class curriculum in the junior and senior high school. (2) The establishment and supervision of work-study programs for the educable retarded and slow learning students. (3) The functions of the sheltered workshop for the physically handicapped and/or the trainable retarded students. (4) The availability and use of federal monies for special programs.

9881

WAR IN THE MODERN WORLD

This course will trace the development of war through the 19th and 20th centuries, stressing the impact of Nationalism, Industrialization and nuclear energy upon the institutions and techniques of warfare. The emphasis will be upon the relationship of war to human society and to the evolution of Western Civilization in the modern world.

8652

WEATHER AND CLIMATE

An introductory analysis of weather elements and atmospheric behavior, including a study of extratropical circulations and frontal systems, tornadoes and hurricanes and some aspects of weather forecasting. Climatic controls, climatic elements and world climatic regions are also studied. Specific applications of knowledge of weather and climate conclude the course.

8708

WECHSLER INTELLIGENCE SCALES

This course is designed to introduce the graduate student to the theory of measurement of intellectual functions and to train him in the specific techniques of the WAIS. Emphasis is placed on the development of technical skills to measuring and appraising intellectual functions and effectively communicating this assessment by means of reports. Intellectual functions are placed in the board context or personality adaptation. Enrollment limited.

8258 WORKSHOP IN ADULT CIVIC EDUCATION

This workshop in Adult Civic Education has five major purposes:

1. To analyze the entire program for Adult Civic Education in the Commonwealth of Massachusetts.
2. To review and analyze the best procedures and materials for obtaining the goals of adult civic education today.
3. To become fully acquainted with the new Americanization and Immigration Act so as to better inform foreign born members of the community.
4. To work out the steps for a comprehensive citizenship program involving full use of school and community resources and personnel.
5. To develop a kit of materials for use by teachers of adult civic education.

8630 WORKSHOP IN GEOMETRY FOR ELEMENTARY TEACHERS

The concept of space, plane, and lines as sets of points will be viewed from an intuitive approach. The study of geometric figures will start with the actual construction of the figures by the students then proceed to a study of some of the non-metric properties of the figures. Workshop topics will include: ruler and compass constructions, making three dimensional models, paper folding, origami, making a moebius band, and constructing overhead projectuals for geometry teaching in classroom.

8851 WORLD ECONOMIC GEOGRAPHY

This course is designed to familiarize the student with the meaning and scope of Economic Geography as a group of fields including geography of Agriculture, Geography of Mineral Production and Power Resources and Manufacturing along with the distribution of major commodities on a world scale. The distribution of commodities will be explained in terms of their physical, economic, and cultural background.

8510 WORLD THEATRE I

A survey of drama from its beginnings in the West up to the Renaissance. The drama of China, India and Japan will also be treated. Representative Greek, Roman and Oriental Plays will be assigned.

8511 WORLD THEATRE II

A survey of drama in the West from the Renaissance up to the middle of the 19th Century.

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